

In the claims:

1. (cancelled)

2. (cancelled)

3. (cancelled)

4. (cancelled)

5. (cancelled)

6. (cancelled)

7. (cancelled)

8. (cancelled)

9. (new) A program product for use by a device capable of wireless communication in a wireless communications environment, the program product comprising a computer readable medium having embodied therein a computer program for storing data, the computer program comprising:

logic for scanning potential radio frequency channels for messages from other wireless devices on those radio frequency channels;

logic for storing an indication of average power of received messages for each channel;  
logic for calculating an adjacency vector sum which represents the sum of all average power levels on all channels;  
logic for transmitting, during a given interval, at least one message including an indication of the calculated adjacency vector sum;  
logic for storing an indication of adjacency vector sums received in messages from other wireless devices; and  
logic for selecting a channel based at least in-part on the stored adjacency vector sums.

10. (new) The program of claim 9 further including logic for maintaining data including an entry for each device ID that sent a message.

11. (new) The program product of claim 10 further including logic for commencing communications with other devices via a first channel if the data has no entries.

12. (new) The program product of claim 11 further including logic operable if the data has entries for checking whether the first channel was occupied at the beginning of the interval, and if the first channel was not occupied at the beginning of the interval, returning to scanning channels.

13. (new) The program product of claim 12 further including logic operable if the first channel was occupied at the beginning of the interval for checking whether all data entries contain power levels that are less than a power level that was recorded on the first channel before the interval,

and if all the data entries contain power levels that are less than the power level that was recorded on the first channel before the interval, then commencing communications with other devices via the first channel.

14. (new) The program product of claim 13 further including logic operable if any data entry contains a power level that is greater than the power level that was recorded on the first channel before the interval, then comparing the adjacency vector sum to an adjacency vector that was received in one of the messages, and if the adjacency vector sum is greater than the adjacency vector received, commencing communications with other devices via the first channel, and otherwise returning to scanning channels.